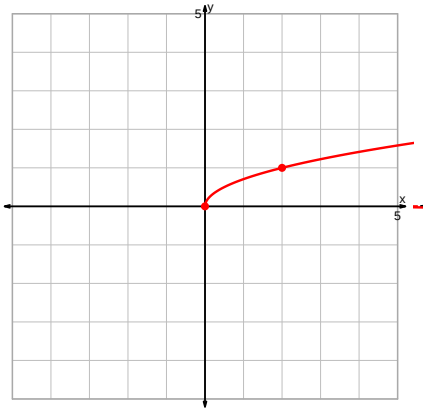
NAME: DATE:

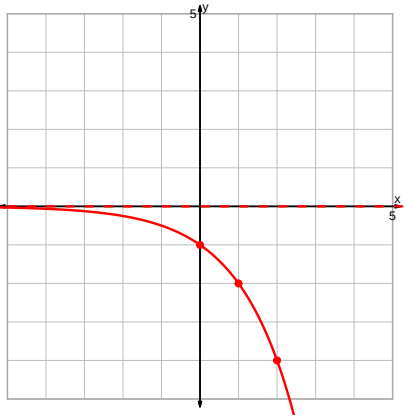
Unit-2 Reduced Mastery Assessment (version 307)

Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

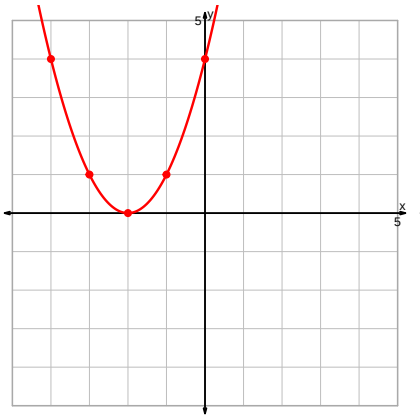
$y = \sqrt{\frac{x}{2}}$

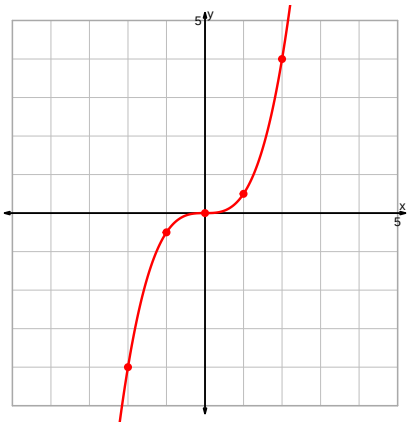




$y = -2^x$

$y = (x+2)^2$

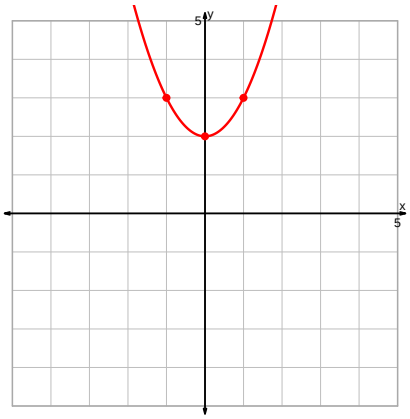


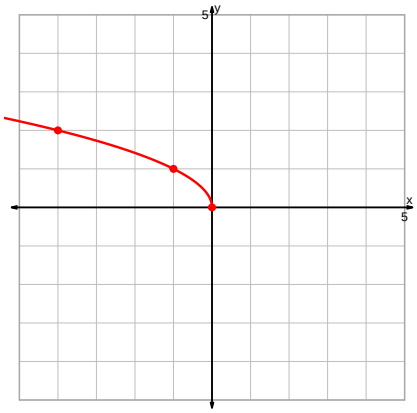


$y = \frac{x^3}{2}$

Question 2 continued. . .

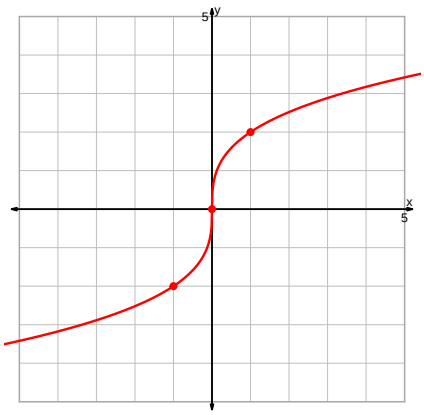
$y = x^2 + 2$

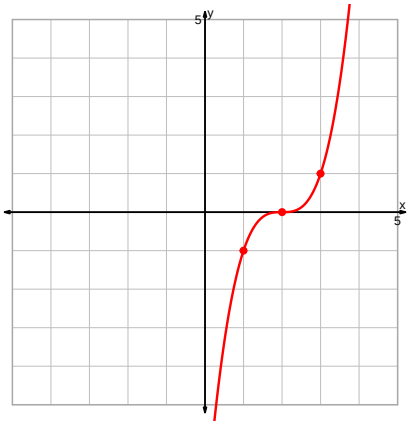




$y = \sqrt{-x}$

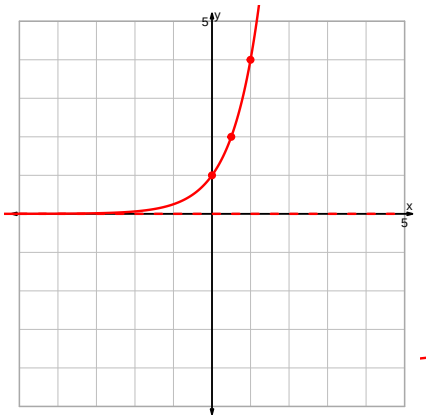
$y = 2 \cdot \sqrt[3]{x}$

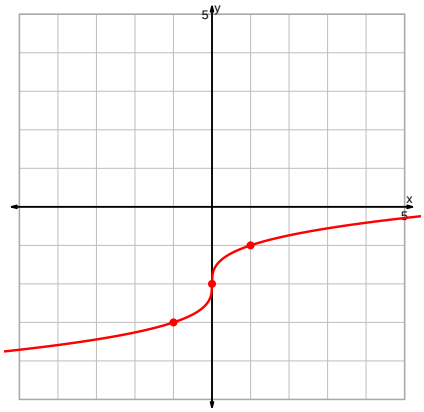




$y = (x - 2)^3$

$y = 2^{2x}$

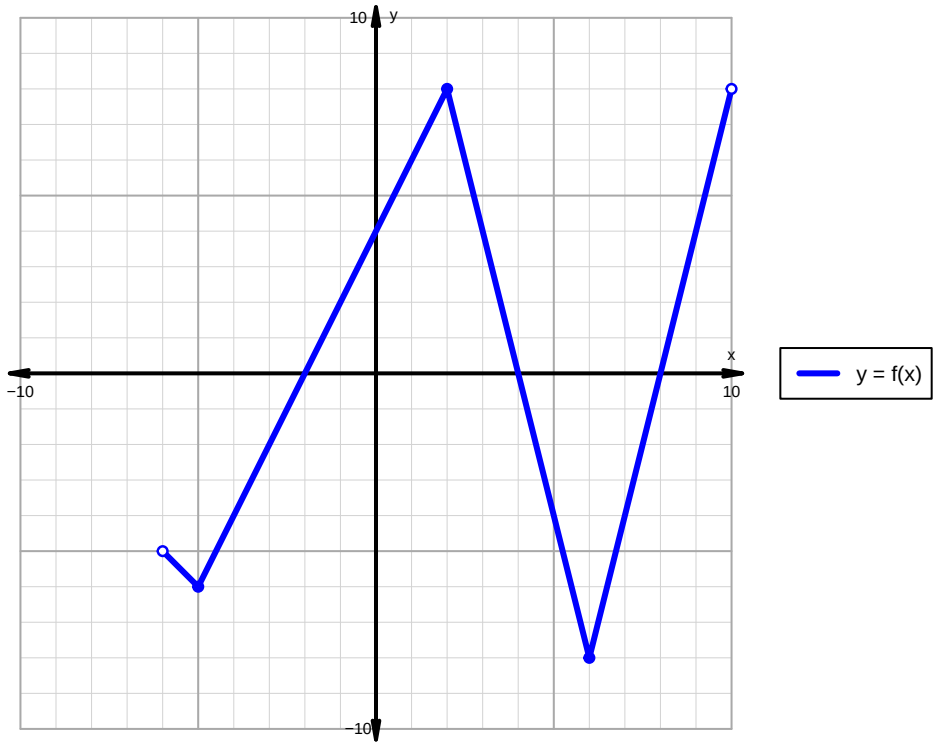




$y = \sqrt[3]{x} - 2$

Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-2, 4) \cup (8, 10)$
Negative	$(-6, -2) \cup (4, 8)$
Increasing	$(-5, 2) \cup (6, 10)$
Decreasing	$(-6, -5) \cup (2, 6)$
Domain	$(-6, 10)$
Range	$(-8, 8)$